

COPY

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 377882001200

Application Number 09/802,370

Applicant

Gary VAN NEST and Joseph J. EIDEN, Jr.

Filing Date March 9, 2001

Group Art Unit 1645

Mailing Date January 24, 2002

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	07/03/1984	4,458,066	Caruthers et al.			
	2.	03/17/1987	4,650,675	Borel et al.			
	3.	07/18/1989	4,849,513	Smith et al.			
	4.	03/20/1990	4,910,300	Urdea et al.			
	5.	08/14/1990	4,948,882	Ruth			
	6.	05/14/1991	5,015,733	Smith et al.			
	7.	03/03/1992	5,093,232	Urdea et al.			
	8.	06/02/1992	5,118,800	Smith et al.			
	9.	06/02/1992	5,118,802	Smith et al.			
	10.	06/23/1992	5,124,246	Urdea et al.			
	11.	09/26/1995	5,453,496	Caruthers et al.			
	12.	09/02/1997	5,663,153	Hutcherson et al.			
	13.	03/03/1998	5,723,335	Hutcherson et al.			
	14.	12/15/1998	5,849,719	Carson et al.			
	15.	01/16/2001	6,174,872 B1	Carson et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	16.	01/29/1992	EP 468,520 A2	EPO			
	17.	02/01/1996	WO 96/02555 A1	WIPO			
	18.	08/07/1997	WO 97/28259 A1	WIPO			
	19.	04/23/1998	WO 98/16247 A1	WIPO			
	20.	05/07/1998	WO 98/18810 A1	WIPO			
	21.	09/03/1998	WO 98/37919 A1	WIPO			
	22.	09/17/1998	WO 98/40100 A1	WIPO			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 377882001200	Application Number 09/802,370
	Applicant Gary VAN NEST and Joseph J. EIDEN, Jr.	
	Filing Date March 9, 2001	Group Art Unit 1645
	Mailing Date January 24, 2002	

	23.	11/26/1998	WO 98/52581 A1	WIPO				
	24.	11/26/1998	WO 98/52962 A1	WIPO				
	25.	12/10/1998	WO 98/55495 A2,A3	WIPO				
	26.	12/10/1998	WO 98/55609 A1	WIPO				
	27.	03/11/1999	WO 99/11275 A2,A3	WIPO				
	28.	07/08/1999	WO 99/33488 A2,A3	WIPO				
	29.	07/08/1999	WO 99/33868 A2,A3	WIPO				
	30.	10/14/1999	WO 99/51259 A2,A3	WIPO				
	31.	11/11/1999	WO 99/56755 A1	WIPO				
	32.	12/09/1999	WO 99/62923 A2,A3	WIPO				
	33.	02/10/2000	WO 00/06588 A1	WIPO				
	34.	03/30/2000	WO 00/16804 A1	WIPO				
	35.	04/20/2000	WO 00/21556 A1	WIPO				
	36.	11/09/2000	WO 00/67023 A1	WIPO				
	37.	02/22/2001	WO 01/12223 A2	WIPO				

OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	38.	Ausubel, Frederick M. et al., eds. (1995). <u>Current Protocols in Molecular Biology</u> . Volume 1, John Wiley & Sons, Inc.: pp. iii-xii (Table of Contents).
	39.	Ballas, Zuhair et al. (1996). "Induction of NK Activity in Murine and Human Cells by CpG Motifs in Oligodeoxynucleotides and Bacterial DNA" <i>J. Immunol.</i> 157:1840-1845.
	40.	Beaucage, Serge L. (1993). "Oligodeoxyribonucleotide Synthesis" Volume 20 Chapter 3 in <u>Protocols for Oligonucleotides and Analogs, Synthesis and Properties</u> , Agrawal (ed.), Humana Press: Totowa, NJ. pp. 33-61.
	41.	Branda, Richard F. et al. (1993). "Immune Stimulation by an Antisense Oligomer Complementary to the Rev Gene of HIV-1" <i>Biochem. Pharmacol.</i> 45(10):2037-2043.
	42.	Branda, Richard F. et al. (1996). "Amplification of Antibody Production by Phosphorothioate Oligodeoxynucleotides" <i>J. Lab. Clin. Med.</i> 128(3):329-338.
	43.	Braun, Ralph P. and Lee, Jeremy S. (1988). "Immunogenic Duplex Nucleic Acids are Nuclease Resistant" <i>J. Immunol.</i> 141(6):2084-2089.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 377882001200

Application Number 09/802,370

Applicant

Gary VAN NEST and Joseph J. EIDEN, Jr.

Filing Date March 9, 2001

Group Art Unit 1645

Mailing Date January 24, 2002

44.	Brazolot Millan, Cynthia L. et al. (1998). "CpG DNA can Induce Strong Th1 Humoral and Cell-Mediated Immune Responses Against Hepatitis B Surface Antigen in Young Mice" <i>Proc. Natl. Acad. Sci. USA</i> 95:15553-15558.
45.	Broide, David et al. (1998). "Immunostimulatory DNA Sequences Inhibit IL-5, Eosinophilic Inflammation, and Airway Hyperresponsiveness in Mice" <i>J. Immunol.</i> 161:7054-7062.
46.	Broide, David and Raz, Eyal (1999). "DNA-Based Immunization for Asthma" <i>Int. Arch. Allergy Immunol.</i> 118:453-456.
47.	Carson, Dennis A. and Raz, Eyal (1997). "Oligonucleotide Adjuvants for T Helper 1 (Th1)-Specific Vaccination" <i>J. Exp. Med.</i> 186(10):1621-1622.
48.	Chace, Jacqueline H. et al. (1997). "Bacterial DNA-Induced NK Cell IFN-Gamma Production is Dependent on Macrophage Secretion of IL-12" <i>Clin. Immunol. and Immunopathol.</i> 84(2):185-193.
49.	Chaturvedi, Surendra et al. (1996). "Stabilization of Triple-Stranded Oligonucleotide Complexes: Use of Probes Containing Alternating Phosphodiester and Stereo-Uniform Cationic Phosphoramidate Linkages" <i>Nucleic Acids Res.</i> 24(12):2318-2323.
50.	Chu, Rose S. et al. (1997). "CpG Oligodeoxynucleotides Act as Adjuvants that Switch on T Helper 1 (Th1) Immunity" <i>J. Exp. Med.</i> 186(10):1623-1631.
51.	Coligan, John E. et al., eds. (1998). <u>Current Protocols in Immunology</u> Volume 1, John Wiley & Sons, Inc: pp. 1-9 (Table of Contents).
52.	Cowdery, John S. et al. (1996). "Bacterial DNA Induces NK Cells to Produce IFN-Gamma in Vivo and Increases the Toxicity of Lipopolysaccharides" <i>J. Immunol.</i> 156:4570-4575.
53.	Elkins, Karen L. et al. (1999). "Bacterial DNA Containing CpG Motifs Stimulates Lymphocyte-Dependent Protection of Mice Against Lethal Infection with Intracellular Bacteria" <i>J. Immunol.</i> 162:2291-2298.
54.	Freshney, R.I., ed. (1987). <u>Animal Cell Culture: A Practical Approach</u> . IRL Press: pp. vii-xii (Table of Contents).
55.	Gait, M. J., ed. (1984). <u>Oligonucleotide Synthesis: A Practical Approach</u> IRL Press: pp. vii-xii (Table of Contents).
56.	Galibert et al. (1979). "Nucleotide sequence of the hepatitis B virus genome (subtype ayw) cloned in <i>E. coli</i> " <i>Nature</i> 281:646-650.
57.	Gao, Hetian et al. (1995). "Circulation of Oligonucleotides by Disulfide Bridge Formation" <i>Nucleic Acids Res.</i> 23(11):2025-2029.
58.	Godard, Gérard et al. (1995). "Antisense Effects of Cholesterol-Oligodeoxynucleotide Conjugates Associated with Poly(Alkylcyanoacrylate) Nanoparticles" <i>Eur. J. Biochem.</i> 232:404-410.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 377882001200	Application Number 09/802,370
		Applicant Gary VAN NEST and Joseph J. EIDEN, Jr.	
		Filing Date March 9, 2001	Group Art Unit 1645
		Mailing Date January 24, 2002	
	59.	Gramzinski, Robert A. et al. (1998). "Immune Response to a Hepatitis B DNA Vaccine in Aotus Monkeys: a Comparison of Vaccine Formulation, Route, and Method of Administration" <i>Mol. Med.</i> 4:109-118.	
	60.	Horner, Anthony A. et al. (1998). "Immunostimulatory DNA is a Potent Mucosal Adjuvant" <i>Cell. Immunol.</i> 190:77-82.	
	61.	Jäger, Alfred et al. (1988). "Oligonucleotide N-Alkylphosphoramidates: Synthesis and Binding to Polynucleotides" <i>Biochem.</i> 27(19):7237-7246.	
	62.	Jakob, Thilo et al. (1998). "Activation of Cutaneous Dendritic Cells by CpG-Containing Oligodeoxynucleotides: a Role for Dendritic Cells in the Augmentation of Th1 Responses by Immunostimulatory DNA" <i>J. Immunol.</i> 161:3042-3049.	
	63.	Kataoka, Tetsuro et al. (1992). "Antitumor Activity of Synthetic Oligonucleotides with Sequences from cDNA Encoding Proteins of Mycobacterium Bovis BCG" <i>Jpn. J. Cancer Res.</i> 83:244-247.	
	64.	Kimura, Yoshimitsu et al. (1994). "Binding of Oligoguanylate to Scavenger Receptors is Required for Oligonucleotides to Augment NK Cell Activity and Induce IFN" <i>J. Biochem. (Tokyo)</i> 116(5):991-994.	
	65.	Kline, J. N. et al. (1997). "Immune Redirection by CpG Oligonucleotides Conversion of a Th2 Response to a Th1 Response in a Murine Model of Asthma" <i>J. Invest. Med.</i> 45(3):282A.	
	66.	Klinman, Dennis M. et al. (1996). "CpG Motifs Present in Bacterial DNA Rapidly Induce Lymphocytes to Secrete Interleukin 6, Interleukin 12, and Interferon Gamma" <i>Proc. Natl. Acad. Sci. USA</i> 93:2879-2883.	
	67.	Klinman, Dennis M. et al. (1997). "Contribution of CpG Motifs to the Immunogenicity of DNA Vaccines" <i>J. Immunol.</i> 158:3635-3639.	
	68.	Kovarik, Jiri et al. (1999). "CpG Oligodeoxynucleotides can Circumvent the Th2 Polarization of Neonatal Responses to Vaccines but May Fail to Fully Redirect Th2 Responses Established by Neonatal Priming" <i>J. Immunol.</i> 162:1611-1617.	
	69.	Krieg, Arthur M. et al. (1989). "A Role for Endogenous Retroviral Sequences in the Regulation of Lymphocyte Activation" <i>J. Immunol.</i> 143(8):2448-2451.	
	70.	Krieg, Arthur M. et al. (1995). "CpG Motifs in Bacterial DNA Trigger Direct B-Cell Activation" <i>Nature</i> 374:546-549.	
	71.	Krieg, Arthur M. (1996). "Lymphocyte Activation by CpG Dinucleotide Motifs in Prokaryotic DNA" <i>Trends Microbiol.</i> 4(2):73-77.	
	72.	Krieg, Arthur M. et al. (1996). "Oligodeoxynucleotide Modifications Determine the Magnitude of B Cell Stimulation by CpG Motifs" <i>Antisense Nucleic Acid Drug Dev.</i> 6:133-139.	
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 377882001200	Application Number 09/802,370
	Applicant Gary VAN NEST and Joseph J. EIDEN, Jr.	
	Filing Date March 9, 2001	Group Art Unit 1645
	Mailing Date January 24, 2002	

73.	Krieg, Arthur M. (1998). "Leukocyte Stimulation by Oligodeoxynucleotides" Chapter 24 in <u>Applied Antisense Oligonucleotide Technology</u> C.A. Stein et al. eds. Wiley-Liss, Inc.: pp. 431-448.
74.	Krieg, Arthur M. et al. (1998a). "The Role of CpG Dinucleotides in DNA Vaccines" <i>Trends Microbiol.</i> 6(1):23-27.
75.	Krieg, Arthur M. et al. (1998b). "CpG DNA Induces Sustained IL-12 Expression in Vivo and Resistance to <i>Listeria Monocytogenes</i> Challenge" <i>J. Immunol.</i> 161:2428-2434.
76.	Krieg, Arthur M. et al. (1998c). "Sequence Motifs in Adenoviral DNA Block Immune Activation by Stimulatory CpG Motifs" <i>Proc. Natl. Acad. Sci. USA</i> 95:12631-12636.
77.	Krieg, Arthur M. (1999). "CpG DNA: a Novel Immunomodulator" <i>Trends Microbiol.</i> 7(2):64-65.
78.	Latimer, Laura J. P. et al. (1995). "Specificity of Monoclonal Antibodies Produced Against Phosphorothioate and Ribo Modified DNAs" <i>Mol. Immunol.</i> 32(14/15):1057-1064.
79.	Leclerc, Claude et al. (1997). "The Preferential Induction of a Th1 Immune Response by DNA-Based Immunization is Mediated by the Immunostimulatory Effect of Plasmid DNA" <i>Cell. Immunol.</i> 179:97-106.
80.	Liang, Hua et al. (1996). "Activation of Human B Cells by Phosphorothioate Oligodeoxynucleotides" <i>J. Clin. Invest.</i> 98(5):1119-1129.
81.	Lipford, Grayson B. et al. (1997a). "CpG-Containing Synthetic Oligonucleotides Promote B and Cytotoxic T Cell Responses to Protein Antigen: A New Class of Vaccine Adjuvants" <i>Eur. J. Immunol.</i> 27:2340-2344.
82.	Lipford, Grayson B. et al. (1997b). "Immunostimulatory DNA: Sequence-Dependent Production of Potentially Harmful or Useful Cytokines" <i>Eur. J. Immunol.</i> 27:3420-3426.
83.	Liu, Hsin-Ming et al. (1998). "Immunostimulatory CpG Oligodeoxynucleotides Enhance the Immune Response to Vaccine Strategies Involving Granulocyte-Macrophage Colony-Stimulating Factor" <i>Blood</i> 92(10):3730-3736.
84.	Macfarlane, D.E. et al. (1997). "Unmethylated CpG-Containing Oligodeoxynucleotides Inhibit Apoptosis in WEHI 231 B Lymphocytes Induced by Several Agents: Evidence for Blockade of Apoptosis at a Distal Signalling Step" <i>Immunology</i> 91:586-593.
85.	Manzel, Lori and MacFarlane, Donald E. (1999). "Lack of Immune Stimulation by Immobilized CpG-Oligodeoxynucleotide" <i>Antisense Nucl. Acid Drug Dev.</i> 9:459-464.
86.	Martin-Orozco, Elena et al. (1999). "Enhancement of Antigen-Presenting Cell Surface Molecules Involved in Cognate Interactions by Immunostimulatory DNA Sequences" <i>Int. Immunol.</i> 11(7):1111-1118.
87.	Masseyeff, René F., ed. (1993). <u>Methods of Immunological Analysis. Volume 1: Fundamentals.</u> Verlagsgesellschaft mbH, D-6940: Weinheim, Germany: pp. xi-xxii (Table of Contents).

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 377882001200

Application Number 09/802,370

Applicant

Gary VAN NEST and Joseph J. EIDEN, Jr.

Filing Date March 9, 2001

Group Art Unit 1645

Mailing Date January 24, 2002

- | | |
|------|---|
| 88. | Matteucci (1997) "Oligonucleotide Analogs:an Overview" in <i>Oligonucleotides as Therapeutic Agents</i> , (D.J. Chadwick and G. Cardew, ed.) John Wiley and Sons, New York, NY: pp. 5-18. |
| 89. | McCluskie, Michael J. and Davis, Heather L. (1998). "CpG DNA is a Potent Enhancer of Systemic and Mucosal Immune Responses Against Hepatitis B Surface Antigen with Intranasal Administration to Mice" <i>J. Immunol.</i> 161:4463-4466. |
| 90. | Miller, Jeffrey H. and Calos, Michele B., eds. (1987). "Gene Transfer Vectors for Mammalian Cells" in <i>Current Communications in Molecular Biology</i> . Cold Spring Harbor Laboratory: pp. vii-ix (Table of Contents). |
| 91. | Miller, Paul S. et al. (1971). "Syntheses and Properties of Adenine and Thymine Nucleoside Alkyl Phosphotriesters, the Neutral Analogs of Dinucleoside Monophosphates" <i>JACS</i> 93(24):6657-6665. |
| 92. | Mojcik, Christopher F. et al. (1993). "Administration of a Phosphorothioate Oligonucleotide Antisense to Murine Endogenous Retroviral MCF <i>Env</i> Causes Immune Effects <i>in Vivo</i> in a Sequence-Specific Manner" <i>Clin. Immunol. and Immunopathol.</i> 67(2):130-136. |
| 93. | Moldoveanu, Zina et al. (1998). "CpG DNA, a Novel Immune Enhancer for Systemic and Mucosal Immunization with Influenza Virus" <i>Vaccine</i> 16(11/12):1216-1224. |
| 94. | Mullis, Kary B. et al., eds. (1994). <i>PCR: The Polymerase Chain Reaction</i> . Birkhäuser: pp. xv-xvii (Table of Contents). |
| 95. | Nelson, Jeffrey S. et al. (1997). "N3'→P5' Oligodeoxyribonucleotide Phosphoramidates: A New Method of Synthesis Based on a Phosphoramidite Amino-Exchange Reaction" <i>J. Org. Chem.</i> 62:7278-7287. |
| 96. | Peyrottes, Suzanne et al. (1996). "Oligodeoxynucleoside Phosphoramidates (P-NH2): Synthesis and Thermal Stability of Duplexes with DNA and RNA Targets" <i>Nucleic Acids Res.</i> 24(10):1841-1848. |
| 97. | Pisetsky, David S. and Reich, Charles F. (1994). "Stimulation of Murine Lymphocyte Proliferation by a Phosphorothioate Oligonucleotide with Antisense Activity for Herpes Simplex Virus" <i>Life Sci.</i> 54(2):101-107. |
| 98. | Pisetsky, David S. et al. (1995). "Immunological Properties of Bacterial DNA" <i>Ann. N.Y. Acad. Sci.</i> 772:152-163. |
| 99. | Pisetsky, David S. (1996a). "The Immunologic Properties of DNA" <i>J. Immunol.</i> 156(2):421-423. |
| 100. | Pisetsky, David S. (1996b). "Immune Activation by Bacterial DNA: a New Genetic Code" <i>Immunity</i> 5:303-310. |
| 101. | Raz, Eyal et al. (1994). "Intradermal Gene Immunization: the Possible Role of DNA Uptake in the Induction of Cellular Immunity to Viruses" <i>Proc. Natl. Acad. Sci. USA</i> 91:9519-9523. |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 377882001200

Application Number 09/802,370

Applicant

Gary VAN NEST and Joseph J. EIDEN, Jr.

Filing Date March 9, 2001

Group Art Unit 1645

Mailing Date January 24, 2002

- | | |
|------|--|
| 102. | Raz, Eyal et al. (1996). "Preferential Induction of a Th1 Immune Response and Inhibition of Specific IgE Antibody Formation by Plasmid DNA Immunization" <i>Proc. Natl. Acad. Sci. USA</i> 93:5141-5145. |
| 103. | Redford, Thomas W. et al. (1998). "Cyclosporin A Enhances IL-12 Production by CpG Motifs in Bacterial DNA and Synthetic Oligodeoxynucleotides" <i>J. Immunol.</i> 161:3930-3935. |
| 104. | Romagnani, Sergio (2000). "T-Cell Subsets (Th1 versus Th2)" <i>Ann. Allergy Asthma Immunol.</i> 85(1):9-18. |
| 105. | Roman, Mark et al. (1997). "Immunostimulatory DNA Sequences Function as T Helper-1-Promoting Adjuvants" <i>Nature Med.</i> 3(8):849-854. |
| 106. | Sambrook, J. et al., eds. (1989). <i>Molecular Cloning: A Laboratory Manual</i> , Second Edition, Cold Spring Harbor Laboratory Press: pp. x-xxxviii (Table of Contents). |
| 107. | Sato, Yukio et al. (1996). "Immunostimulatory DNA Sequences Necessary for Effective Intradermal Gene Immunization" <i>Science</i> 273:352-354. |
| 108. | Schacht, Etienne et al. (1996). "Biomedical Applications of Degradable Polyphosphazenes" <i>Biotechnol. Bioeng.</i> 52:102-108. |
| 109. | Schultz, Ronald G. and Gryaznov, Sergei M. (1996). "Oligo-2'-Fluoro-2'-Deoxynucleotide N3'→P5 Phosphoramidates: Synthesis and Properties" <i>Nucleic Acids Res.</i> 24(15):2966-2973. |
| 110. | Schwartz, David A. et al. (1997). "CpG Motifs in Bacterial DNA Cause Inflammation in the Lower Respiratory Tract" <i>J. Clin. Invest.</i> 100(1):68-73. |
| 111. | Shimada, Shizuo et al. (1986). "In Vivo Augmentation of Natural Killer Cell Activity with a Deoxyribonucleic Acid Fraction of BCG" <i>Jpn. J. Cancer Res.</i> 77:808-816. |
| 112. | Sonehara, Kazuhiko et al. (1996). "Hexamer Palindromic Oligonucleotides with 5'-CG-3' Motif(s) Induce Production of Interferon" <i>J. Interferon and Cytokine Res.</i> 16:799-803. |
| 113. | Sparwasser, Tim et al. (1997). "Macrophages Sense Pathogens Via DNA Motifs: Induction of Tumor Necrosis Factor-Alpha-Mediated Shock" <i>Eur. J. Immunol.</i> 27:1671-1679. |
| 114. | Spiegelberg, H.L. et al. (1998). "Inhibition of IgE Formation and Allergic Inflammation by Allergen Gene Immunization and by CpG Motif Immunostimulatory Oligodeoxynucleotides" <i>Allergy</i> 53:93-97. |
| 115. | Spiegelberg, Hans L. et al. (1999). "Inhibition of Allergic Inflammation in the Lung by Plasmid DNA Allergen Immunization" <i>Pediatr. Pulmonol. Suppl.</i> 18:118-121. |
| 116. | Stacey, Katryn J. et al. (1996). "Macrophages Ingest and are Activated by Bacterial DNA" <i>J. Immunol.</i> 157(5):2116-2122. |
| 117. | Stein, C.A. and Krieg, Arthur (1997). "Non-Antisense Effects of Oligodeoxynucleotides" Chapter 11 in <i>Antisense Technology</i> Lichtenstein, C. and Nellen, W. eds., IRL Press: pp.241-264. |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 377882001200

Application Number 09/802,370

Applicant

Gary VAN NEST and Joseph J. EIDEN, Jr.

Filing Date March 9, 2001

Group Art Unit 1645

Mailing Date January 24, 2002

118.	Stirchak, Eugene P. et al. (1989). "Uncharged Stereoregular Nucleic Acid Analogs: 2. Morpholino Nucleoside Oligomers with Carbamate Internucleoside Linkages" <i>Nucleic Acids Res.</i> 17(15):6129-6141.
119.	Tokunaga, Tohru et al. (1992). "Synthetic Oligonucleotides with Particular Base Sequences from the cDNA Encoding Proteins of Mycobacterium Bovis BCG Induce Interferons and Activate Natural Killer Cells" <i>Microbiol. Immunol.</i> 36(1):55-66.
120.	Wang, Shaohui and Kool, Eric T. (1994). "Circular RNA Oligonucleotides. Synthesis, Nucleic Acid Binding Properties, and a Comparison with Circular DNAs" <i>Nucleic Acids Res.</i> 22(12):2326-2333.
121.	Warner, B.D. et al. (1984). "Construction and Evaluation of an Instrument for the Automated Synthesis of Oligodeoxyribonucleotides" <i>DNA</i> 3(5):401-411.
122.	Weeratna, Risini et al. (1998). "Reduction of Antigen Expression from DNA Vaccines by Coadministered Oligodeoxynucleotides" <i>Antisense and Nucleic Acid Drug Development</i> 8:351-356.
123.	Weiner, George J. et al. (1997). "Immunostimulatory Oligodeoxynucleotides Containing the CpG Motif are Effective as Immune Adjuvants in Tumor Antigen Immunization" <i>Proc. Natl. Acad. Sci. USA</i> 94:10833-10837.
124.	Weir, D.M., ed., <u>Handbook of Experimental Immunology in Four Volumes</u> "Volume 4: Applications of Immunological Methods in Biomedical Sciences" Blackwell Scientific Publications: pp. v-x (Table of Contents).
125.	Wild, David, ed., (1994). <u>The Immunoassay Handbook</u> , Stockton Press: pp. v-xvi (Table of Contents).
126.	Wooldridge, James E. et al. (1997). "Immunostimulatory Oligodeoxynucleotides Containing CpG Motifs Enhance the Efficacy of Monoclonal Antibody Therapy of Lymphoma" <i>Blood</i> 89(8):2994-2998.
127.	Yamamoto, Saburo et al. (1992). "Unique Palindromic Sequences in Synthetic Oligonucleotides are Required to Induce IFN [correction of INF] and Augment IFN-Mediated [correction of INF] Natural Killer Activity" <i>J. Immunol.</i> 148(12):4072-4076.
128.	Yamamoto, Toshiko et al. (1994a). "Ability of Oligonucleotides with Certain Palindromes to Induce Interferon Production and Augment Natural Killer Cell Activity is Associated with Their Base Length" <i>Antisense Research and Development</i> 4:119-122.
129.	Yamamoto, Toshiko et al. (1994b). "Synthetic Oligonucleotides with Certain Palindromes Stimulate Interferon Production of Human Peripheral Blood Lymphocytes in Vitro" <i>Jpn. J. Cancer Res.</i> 85:775-779.
130.	Yi, Ae-Kyung et al. (1996). "IFN-Gamma Promotes IL-6 and IgM Secretion in Response to CpG Motifs in Bacterial DNA and Oligodeoxynucleotides" <i>J. Immunol.</i> 156(2):558-564.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 377882001200	Application Number 09/802,370
	Applicant Gary VAN NEST and Joseph J. EIDEN, Jr.	
	Filing Date March 9, 2001	Group Art Unit 1645
	Mailing Date January 24, 2002	

131.	Yi, Ae-Kyung and Krieg, Arthur M. (1998a). "CpG DNA Rescue from Anti-IgM-Induced WEHI-231 B Lymphoma Apoptosis Via Modulation of I Kappa B Alpha and I Kappa B Beta and Sustained Activation of Nuclear Factor-Kappa B/c-Rel" <i>J. Immunol.</i> 160(3):1240-1245.
132.	Yi, Ae-Kyung et al.(1998b). "CpG Motifs in Bacterial DNA Activate Leukocytes Through the pH-Dependent Generation of Reactive Oxygen Species" <i>J. Immunol.</i> 160(10):4755-4761.
133.	Yi, Ae-Kyung et al. (1998c). "CpG Oligodeoxyribonucleotides Rescue Mature Spleen B Cells from Spontaneous Apoptosis and Promote Cell Cycle Entry" <i>J. Immunol.</i> 160(12):5898-5906.
134.	Yi, Ae-Kyung and Krieg, Arthur M. (1998d). "Cutting Edge: Rapid Induction of Mitogen-Activated Protein Kinases by Immune Stimulatory CpG DNA" <i>J. Immunol.</i> 161(9):4493-4497.
135.	Zhao, Qiuyan et al. (1996). "Effect of Different Chemically Modified Oligodeoxynucleotides on Immune Stimulation" <i>Biochem. Pharmacol.</i> 51(2):173-182.
136.	Zimmermann, Stefan et al. (1998). "CpG Oligodeoxynucleotides Trigger Protective and Curative Th1 Responses in Lethal Murine Leishmaniasis" <i>J. Immunol.</i> 160(8):3627-3630.
137.	Zon, Gerald (1993). "Oligonucleoside Phosphorothioates" Chapter 8 in <u>Protocols for Oligonucleotides and Analogs, Synthesis and Properties</u> , Agrawal (ed.), Humana Press: pp.165-189.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.